HW ANSWERS p. 383:

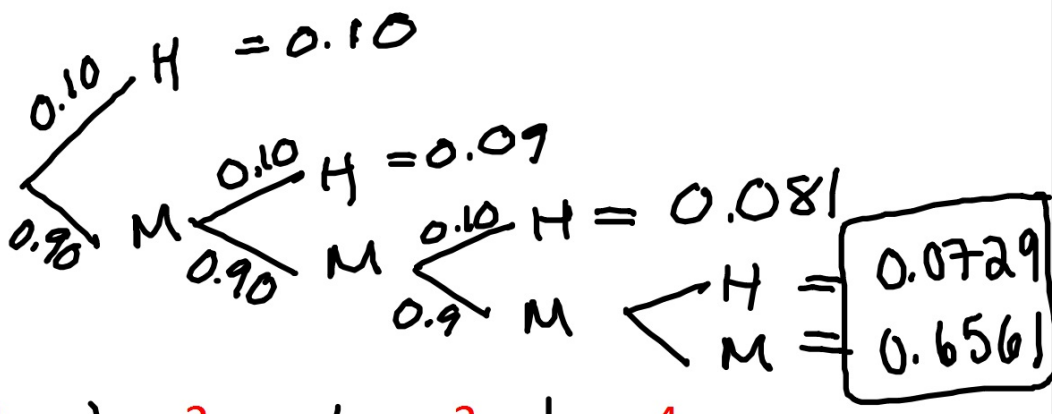
2) (a) 1.2 $= \mu_x$
(b) 280 $= \mu_x$

10) (a) 0.75 $= \sigma_x$
(b) 87.18 $= \sigma_x$

$X \rightarrow L_1$

$P(x) \rightarrow L_2$

1 Var stats L_1, L_2



6) (a)

# darts	1	2	3	4
prob	0.10	0.09	0.081	0.729

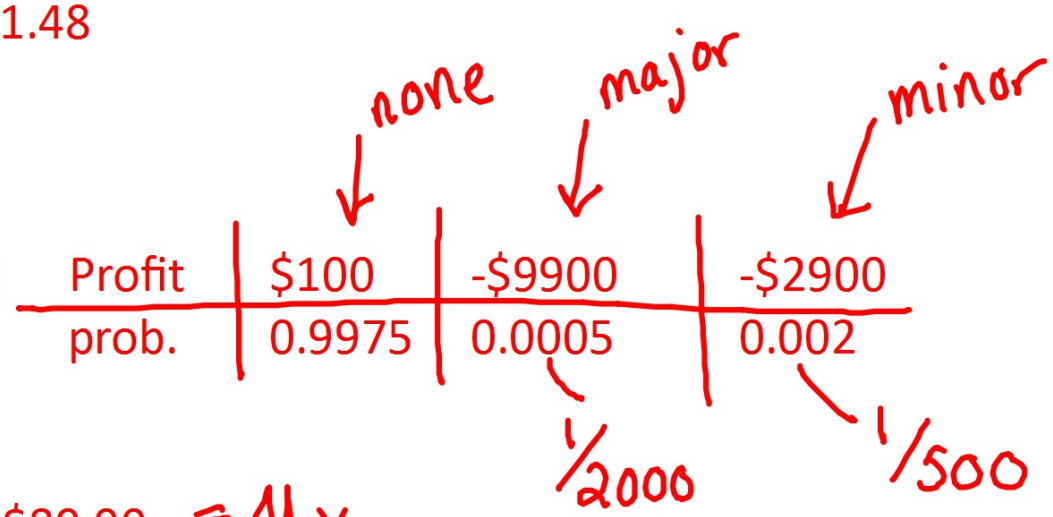
gain	$95	$90	$85	$80	-$20
prob	0.10	0.09	0.081	0.073	0.656

(b) 3.44 darts = μ_x

(c) \$17.20 = μ_x

14) $51.48

18) (a)



(b) $89.90 $= \mu_X$

(c) $260.54 $= \sigma_X$

p. 340

38) (a) $P(S \cap S \cap S^c \cap S^c \cap S^c) = 0.01382$

(b) $P(S^c \cap S^c \cap S^c \cap S) = 0.0921$

(c) $P(S \cap S \cap S \cap S \cap S) = 0.0000759$

(d) $1-P(S^c \cap S^c \cap S^c \cap S^c \cap S^c)= 0.5563$